

Docket Number: 068800-0281177

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: the Application of

ARVYDAS JANULAITIS, et al.

Group Art Unit: 1652

Application No.: 09/883,249

Examiner: C.L. Patterson, Jr.

Filed: June 19, 2001

Confirmation No.: 9549

For: NUCLEASE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicants respectfully request the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicants with the next Office communication to indicate that the reference(s) has been considered, per MPEP § 609.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

Please charge Deposit Account 033975 in the amount of \$180.00 in payment of the fee under 37 CFR 1.17(p). Please credit or debit Deposit Account 033975 as needed to ensure consideration of the disclosed information.

English-language Abstracts of the non-English language references are attached hereto.

05/25/2004 EAREGAY1 00000163 033975 09883249

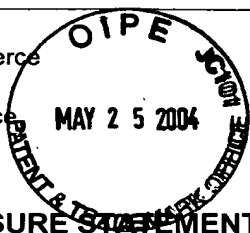
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Respectfully Submitted,

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FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office



Atty. Dkt. No.	M#	Client Ref.
	0281177	203472/JND/SV

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicant: JANULAITIS et al.

Appln. No.: 09/883,249

Filing Date: June 19, 2001

Date: May 24, 2004

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Examiner: C.L. Patterson, Jr. Group Art Unit: 1652

## U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 6,191,267 B1	02/2001	Kong et al.	536	23.4	6/2/00
	BR 20030100094	05/2003	Heiter et al	435	199	8/16/02
	CR					

## FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name		Abstract		Readily Available	
							Enclosed	No	Enclose	No
	DR									
	ER									
	FR									

## OTHER (Including in this order: Author, Title, Periodical Name, Date, Volume, Pertinent Pages, etc.):

	GR	Abdurashitov et al., "N.BstSE--a site-specific nickase from Bacillus stearothermophilus SE-589", Mol Biol (Mosk). 1996 Nov-Dec;30(6):1261-7 (Russian article, English translation enclosed)				
	HR	Aggarwal, "Structure and function of restriction endonucleases," Curr Opin Struct Biol. 1995 Feb; 5(1):11-9				
	IR	Aslanidis et al., "Ligation-independent cloning of PCR products (LIC-PCR)," Nucleic Acids Res. 1990 Oct 25; 18(20):6069-74				
	JR	Bonaldo et al., "Normalization and subtraction: two approaches to facilitate gene discovery," Genome Res. 1996 Sep; 6(9):791-806				
	KR	Erskine et al., "Rapid-reaction analysis of plasmid DNA cleavage by the EcoRV restriction endonuclease," Biochemistry. 1997 Jun 17; 36(24):7567-76				
	LR	Geider et al., "Intermediate stages in enzymatic replication of bacteriophage fd duplex DNA," J Biol Chem. 1982 Jun 10; 257(11):6488-93				
	MR	Gruenbaum et al., "Restriction enzyme digestion of hemimethylated DNA," Nucleic Acids Res. 1981; 9(11):2509-15				
	NR	Halford et al., "The EcoRI restriction endonuclease, covalently closed DNA and ethidium bromide," Biochem J. 1981; 199(3):767-77				
	OR	Meyer et al., "Cleavage site of bacteriophage fd gene II-protein in the origin of viral strand replication," Nature. 1979 Mar 22; 278:365-7				
	PR	Nakamaye et al., "Inhibition of restriction endonuclease Nci I cleavage by phosphorothioate groups and its application to oligonucleotide-directed mutagenesis," Nucleic Acids Res. 1986 Dec 22; 14(24):9679-98				
	QR	Nardone et al., "DNA structural polymorphism modulates the kinetics of superhelical DNA cleavage by BamHI restriction endonuclease," J Biol Chem. 1990 Sep 5; 265(25):15308-15				
	RR	Nobbs et al., "DNA excision by the Sfi I restriction endonuclease," J Mol Biol. 1998 Aug 21; 281(3):419-32				
	SR	Osterlund et al., "Ethidium-bromide-inhibited restriction endonucleases cleave one strand of circular DNA," Gene. 1982 Nov;20(1):121-5				

	TR	Peacock et al., "Transformation of E. coli using homopolymer-linked plasmid chimeras," Biochim Biophys Acta. 1981 Sep 28; 655(2):243-50				
	UR	Potter et al., "Cleavage of phosphorothioate-substituted DNA by restriction endonucleases," J Biol Chem. 1984 Nov 25; 259(23):14243-8				
	VR	Rashtchian et al., "Uracil DNA glycosylase-mediated cloning of polymerase chain reaction-amplified DNA: application to genomic and cDNA cloning," Anal Biochem. 1992 Oct; 206(1):91-7				
	WR	Sayers et al., "Strand specific cleavage of phosphorothioate-containing DNA by reaction with restriction endonucleases in the presence of ethidium bromide," Nucleic Acids Res. 1988 Feb 11; 16(3):803-14				
	XR	Schakowski et al., "A novel minimal-size vector (MIDGE) improves transgene expression in colon carcinoma cells and avoids transfection of undesired DNA. Mol Ther. 2001 May; 3(5 Pt 1):793-800				
	YR	Siksnyis et al., "Catalytic and binding properties of restriction endonuclease Cfr9I," Eur J Biochem. 1993 Oct 1; 217(1):411-9				
	ZR	Stahl et al., "Introduction of asymmetry in the naturally symmetric restriction endonuclease EcoRV to investigate intersubunit communication in the homodimeric protein," Proc Natl Acad Sci U S A. 1996 Jun 11; 93(12):6175-80				
	AAR	Taylor et al., "The rapid generation of oligonucleotide-directed mutations at high frequency using phosphorothioate-modified DNA," Nucleic Acids Res. 1985 Dec 20; 13(24):8765-85				
	BBR	Taylor et al., "The use of phosphorothioate-modified DNA in restriction enzyme reactions to prepare nicked DNA," Nucleic Acids Res. 1985 Dec 20; 13(24):8749-64				
	CCR	Terry et al., "Mechanism of specific site location and DNA cleavage by EcoR I endonuclease," Gene Amplif Anal. 1987; 5:103-18				
	DDR	Walker et al., "Isothermal in vitro amplification of DNA by a restriction enzyme/DNA polymerase system," Proc. Natl. Acad. Sci. 1992; 89:392-396				
	EER	Xia et al., "A site-specific single strand endonuclease activity induced by NYs-1 virus infection of a Chlorella-like green alga," Nucleic Acids Res. 1988 Oct 25; 16(20):9477-87				
	FFR	Zebala et al., "Characterization of steady state, single-turnover, and binding kinetics of the TaqI restriction endonuclease," J Biol Chem. 1992 Apr 25; 267(12):8097-105				
	GGR	Zhang et al., "Chlorella virus NY-2A encodes at least 12 DNA endonuclease/methyltransferase genes," Virology. 1998 Jan 20; 240(2):366-75				
	HHR					
	IIR					

Examiner

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.